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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/698,440	11/03/2003	Se Kit Yuen	Q77987	1530	
23373	7590 01/20/2006		EXAMINER		
	MION, PLLC		CONLEY, SEAN EVERETT		
2100 PENNS' SUITE 800	YLVANIA AVENUE, N.W		ART UNIT	PAPER NUMBER	
	ON, DC 20037		1744		
			DATE MAILED: 01/20/200	6	

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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/698,440	YUEN, SE KIT	
Office Action Summary	Examiner	Art Unit	
	Sean E. Conley	1744	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m earned patent term adjustment. See 37 CFR 1.704(b).	ODATE OF THIS COMMUNI R 1.136(a). In no event, however, may a . riod will apply and will expire SIX (6) MOI atute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 0	<u> 3 November 2003</u> .		
2a) This action is FINAL . 2b) ⊠ 1	This action is non-final.		
3) Since this application is in condition for allo closed in accordance with the practice under			
Disposition of Claims			
4)⊠ Claim(s) <u>1-3</u> is/are pending in the application	on.		
4a) Of the above claim(s) is/are with	drawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-3</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction an	nd/or election requirement.		
Application Papers			
9) The specification is objected to by the Exam	niner.		
10)⊠ The drawing(s) filed on November 3, 2003 i	s/are: a)⊠ accepted or b)□] objected to by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co).
11)☐ The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:			
 Certified copies of the priority document 	ents have been received.	•	
Certified copies of the priority docum	ents have been received in A	Application No	
Copies of the certified copies of the p	priority documents have beer	nreceived in this National Stage	
application from the International Bu			
* See the attached detailed Office action for a	list of the certified copies no	i received.	
Attachment(s)			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE 	,	(s)/Mail Date Informal Patent Application (PTO-152)	
Paper No(s)/Mail Date	6) 🔲 Other:	·	

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

1. Claims 1-3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The term "extreme" in claim 1 is a relative term which renders the claim indefinite. The term "extreme" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. Specifically, one of ordinary skill in the art would not understand what an "extreme" ultraviolet ray tube encompasses.

2. Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 2 recites the limitation "the front and the rear shield wall". There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 3. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yuen et al. (GB 2301179 A) in view of Taylor et al. (U.S. Patent No. 6,911,186 B2).

Yuen et al. discloses an optoelectronic air cleaner comprising a main body (cover (24) with base (22)) of pyramidal shape, the main body including a draft fan (36), a transformer (44), a circuit board (42), an extreme ultraviolet ray tube (32) and a cathode high voltage discharge fiber thread (40) therein, characterized in that the main body is provided with an air inlet (via filter cover (30)) and an air outlet (via outlet grill (14)), the air outlet being disposed on the front end of the main body (see figure 2), an air exhaust gridiron (outlet grill (14)) being disposed in the front surface of a plate fixed on a front gridiron (fan cover (34)) on the front end (16) of the main body; the air inlet (via filter

cover (30)) being disposed on the rear end of the main body and having an air input gridiron (filter cover (30)) provided with a dustproof gridiron (filter holder (26)), a dust screen (filter (28)) and a dust cover for the air inlet; a draft fan fixing cover (fan cover (34)), a draft fan (36) and a fixing frame (support frame (38)) being provided adjacent to the inner surface of the air exhaust gridiron (14); a carbon fiber thread (40) being fixed to the center of the front surface of the air exhaust gridiron (14); an air collecting device being (empty space between the filter holder and the fan support frame) disposed between the air inlet and the draft fan; and an extreme ultraviolet ray tube (32) being disposed at the center of the air collecting device (see figure 2; page 4, line 8 to page 5, line 27). Yuen et al. fails to specifically teach an air cleaner comprising a main body that is cylindrical in shape.

Taylor et al. discloses an air purification device for removing particles from an air by subjecting an airflow to ultraviolet radiation from a germicidal lamp within the device.

The device comprises a housing that is cylindrical in shape (see figures 2A-4; abstract).

Therefore, it would have been an obvious matter of design choice to make the device cylindrical in shape as taught by Taylor et al. as opposed to being pyramidal since the court has held that a claimed shape was a matter of choice which a person of ordinary skill in the art would have found obvious absent persuasive evidence that the particular configuration of the claimed shape was significant (see <u>In re Dailey</u>, 357 F.2d 669, 149 USPQ 47 (CCPA 1966).

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4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yuen et al. in view of Taylor et al. as applied to claim 1 above, and further in view of Hak (U.S. Patent No. 6,494,940).

Yuen et al. in view of Taylor et al. teach an air collecting device that is defined by an air collecting wall (wall of filter holder (26) and the fan support frame (38). However, Yuen et al. in view of Taylor et al. fail to specifically teach an air collecting device that includes a shield wall in order to prevent ultraviolet rays from radiating outside of the device.

Hak discloses a portable air purifier (10) that includes a housing (12) having an ultraviolet chamber (18) for collecting and treating the airflow passing through the device. Within the ultraviolet chamber (18) is an ultraviolet lamp (88) and a wall of chamber (18) includes a shield (102) is supported above the lamp (88) and functions to direct the ultraviolet light away from the outlet grille (106) of the air purifier (10) (see figure 7; col. 4, lines 55-65; col. 6, line 66 to col. 7, line 35).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Yuen et al. in view of Taylor et al. and include a shield in the air collecting device as taught by Hak in order to prevent ultraviolet light from escaping the air purification device where it could harm the device operator.

Allowable Subject Matter

5. Claim 3 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sean E. Conley whose telephone number is 571-272-8414. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rick Crispino can be reached on 571-272-1226. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SEC X.E.e.

January 13, 2006

KRISANNE JASTRZAB